



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-03-27-01 Date: 30-03-18
 Customer : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.
 Address : Dasarahalli Sub division, BBMP, Bangalore.
 Project Name : Improvements to drains at 6th and 7th main of Ramaiah layout (around park) (Opp. Pavagada Co.In flank) in Bagalagunte ward no.14
 Agency : The Technical Manager, KRIDL, Project Implementation unit, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
 Customer's Reference : EE/DD/WO/374/2017-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 27-03-18
 Sample ID No : 2018-03-27-01 /01
 Sample Type : Birla Super 53grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
 IS 4031 (Part 1,2 3,4,5, 6,11):1988
 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
 IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
 Date of test : 28-03-18
 Environmental Conditions during test : Temperature: 26°C
 Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.67	—
2	Fineness by Air permeability method (m ² /kg, Min)	279.5	225m ² /kg, Min
3	Density (gm/cc)	3.14	—
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
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 Samples will be disposed after 90 days from the date of issue of test certificate

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 R KARTHIK RECHAN
 Authorized Signatory
 Quality Manager

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****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-03-27-01 Date: 30-03-18

Customer : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

Address : Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to drains at 6th and 7th main of Ramaiah layout (around park) (Opp. Pavagada Co.In flank) in Bagalagunte ward no.14

Agency : The Technical Manager, KRIDL, Project Implementation unit, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

Customer Reference : EE/DD/WO/374/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-03-18

Sample ID No : 2018-03-27-01 /02(b)

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 27-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	205	205	4.1	95.9	90-100
3	10 mm	1738	1943	38.9	61.1	25-55
4	4.75 mm	2648	4591	91.8	8.2	0-10
5	Pan	409	5000	100	0	—

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Date



R.14/7/18

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-03-27-01 Date: 30-03-18
Sample ID No : 2018-03-27-01 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.2	
3	Specific Gravity	2.64	—
4	Bulk Density(Loose) (Kg/l)	1.52	—
5	Bulk Density(Compacted) (Kg/l)	1.55	—
6	Water Absorption(%)	0.21	—
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.3	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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ಬೆಂಗಳೂರು



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST RESULTS OF STEEL

Lab ID : CP-2018-03-27-01 Date: 29-03-18
Customer : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.
Address : Dasarahalli Sub division, BBMP, Bangalore.
Project Name : Improvements to drains at 6th and 7th main of Ramaiah layout (around park)
(Opp. Pavagada Co.In flank) in Bagalagunte ward no.14
Agency : The Technical Manager, KRIDL, Project Implementation unit, No.280, 59th
cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference : EE/DD/WO/374/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 27-03-18
Sample ID No : 2018-03-27-01 /04
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test: : 28-03-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.391	538	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.614	565	659	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	565	682	19.0%	Satisfactory	Satisfactory

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ಇದರ ಮೂಲಕ ಒಪ್ಪಿಗೆ
ಪ್ರಕಟಿಸಿದ, 2018-03-29
ಪ್ರಕಟಿಸಿದ, 2018-03-29
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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-03-27-01 Date: 31-03-18

Customer : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

Address : Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to drains at 6th and 7th main of Ramaiah layout (around park) (Opp. Pavagada Co.In flank) in Bagalagunte ward no.14

Agency : The Technical Manager, KRIDL, Project Implementation unit, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

Customer's Reference : EE/DD/WO/374/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-03-18

Sample ID No : 2018-03-27-01 /05

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 28/03/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.64	100.58	1.342	4493	75.9	16.9	15.7	19.6
2	Cover Slab-2	75.49	100.39	1.353	4475	72.3	16.2	15.0	18.8
3	Cover Slab-3	75.77	100.54	1.365	4508	71.5	15.9	14.7	18.4

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ಶುದ್ಧರಾ ರಾಜ್-ವಿಘ್ನ
ಪ್ರಾಂಶುಪಾಲ, ಬಿಬಿಎಂಪಿ
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R. Karthik Rechan
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-04-07-01 Date: 09/04/2018

Customer : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

Address : Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to drains at 6th and 7th main of Ramaiah layout (around park) (Opp. Pavagada Co.In flank) in Bagalagunte ward no.14

Agency : The Technical Manager, KRIDL, Project Implementation unit, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

Customer's Reference : EE/DD/WO/374/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-04-18

Sample ID No : 2018-04-07-01 /03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	02/04/2018	09/04/2018	148.57 X 151.81 X 149.71	22554	8.175	390.2	17.3	16.8
2	Drain Concrete	M20	02/04/2018	09/04/2018	151.91 X 150.72 X 151.82	22896	8.217	377.8	16.5	
3	Drain Concrete	M20	02/04/2018	09/04/2018	150.71 X 150.75 X 151.82	22720	8.165	379.4	16.7	

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